(J)

Notice of Allowability	Application No.	Applicant(s)
	09/699,897	COOPER, MATTHEW S.
	Examiner	Art Unit
	Rodney G. McDonald	1753
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communication. This application is subsection.	his application. If not included ication will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>Request for Continue</u>	d Examination filed 1-14-05.	
2. The allowed claim(s) is/are 28-37 and 39-45.		•
3. $\boxtimes$ The drawings filed on <u>27 October 2000</u> are accepted by the	e Examiner.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMes reason(s) why the oath or d	IINER'S AMENDMENT or NOTICE OF eclaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mus  (a) ☐ including changes required by the Notice of Draftspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the property of the state of the sta	on's Patent Drawing Review ( s Amendment / Comment or in	the Office action of  drawings in the front (not the back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1-14-05  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 8), 7. ☐ Examiner's Ar	ail Date mendment/Comment atement of Reasons for Allowance
		RODNEY G. MCDONALD PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

Claims 28 and 34-37 are allowable over the prior art of record because the prior art of record does not teach the claimed PVD component consisting essentially of a material having a face-centered cubic crystalline structure, the component being produced by the method comprising inducing a sufficient amount of residual stress in the component to increase magnetic pass through flux exhibited by the component during PVD compared to pass through flux exhibited without inducing the stress.

Claims 29 and 39-42 are allowable over the prior art of record because the prior art of record does not teach the claimed sputter component produced by the method of unidirectionally first cold working a component blank to at least about an 80% reduction in cross-sectional area, the component blank consisting essentially of a material having a face-centered cubic crystalline structure; heat treating the cold worked component blank at least at about a minimum recrystallization temperature of the component blank; and inducing a sufficient amount of stress in the heat treated component blank to increase magnetic pass through flux exhibited by the heat treated component blank compared to pass through flux exhibited prior to inducing stress.

Claims 30 and 43 are allowable over the prior art of record because the prior art of record does not teach the claimed sputter target produced by the method utilizing the claimed steps such that at least 70% of a surface area at least within selected boundaries of a surface of the second cold rolled target blank exhibit a (200) texture.

Art Unit: 1753

Claims 31-33 are allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a PVD component consisting essentially of nickel exhibiting a (200) texture over at least about 50% of a surface area at least within selected boundaries and having a sufficient amount of residual stress to exhibit higher magnetic pass through flux compared to pass through flux exhibited absent such stress.

Claim 44 is allowable over the prior art of record because the prior art of record does not teach the claimed subject matter including a PVD component consisting essentially of material having a face-centered cubic crystalline structure, the material exhibiting a (200) texture over at least about 70% of a representative surface area, having a sufficient amount of residual stress in the component to increase magnetic pass through flux exhibited by the component during PVD compared to pass through flux exhibited by the component during PVD compared to pass through flux exhibited without inducing the residual stress, but such induced residual stress alone not being sufficient to substantially alter surface grain appearance.

Claim 45 is allowable over the prior art of record because the prior art of record does not teach a PVD component produced by the claimed method including inducing a sufficient amount of residual stress in the blank to increase magnetic pass through flux exhibited by the component during PVD compared to pass through flux exhibited without inducing the residual stress, at least about 70% of a surface of the second cold worked blank exhibiting a (200) texture and the induced residual stress alone not being sufficient to substantially alter surface grain appearance.

Also of record Bartholomeusz et al. (U.S. Pat. 6,123,783) teaches away from a product having the predominant phase being face centered cubic or having a 200 texture and does not suggest methods including cold working and heat treating to produce a product having a predominant phase being face centered cubic or having a 200 texture.

Also of Taniguchi et al. (U.S. Pat. 5,334,267) does not describe the required face centered cubic structure or a 200 texture in the target and equates the way the target can be worked to achieve certain target results thus teaching away from selecting cold working and heat treating as required by Applicant's claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/699,897

Art Unit: 1753

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

flood of D. McDonald Rodney G. McDonald Primary Examiner Art Unit 1753 Page 5

RM January 25, 2005